Claims

- 1. Bipolar transistor, with
- an emitter area (3) which can be contacted electrically via
- 5 an emitter electrode (1);
 - a base area (4) which can be contacted electrically via a base electrode (2);
 - a collector area (5) which can be contacted electrically via a collector electrode;
- wherein at least one electrode of the emitter, base and collector electrodes (1, 2) is a polysilicon layer, into which doping is inserted,
 - characterized in that
 - into the at least one electrode, in addition to the doping,
- 15 impurity atoms with a density of $10^{19} 10^{21}$ cm⁻³ are inserted, the impurity atoms being C, P or Ar atoms.
 - 2. Bipolar transistor according to Claim 1, characterized in that
- 20 the polysilicon layer is doped with boron atoms.
- 3. Bipolar transistor according to Claim 2, characterized in that the concentration of the boron atoms is chosen to be greater than $5 \times 10^{20} \text{ cm}^{-3}$.
 - 4. Bipolar transistor according to one of the preceding claims,
 - characterized in that
- 30 the at least one electrode (1, 2) consists of polycrystalline silicon-germanium.

5. Bipolar transistor according to one of the preceding claims,

characterized in that

the at least one electrode is the base electrode (2).

5

6. Bipolar transistor according to one of the preceding claims,

characterized in that

the bipolar transistor is a self-aligned bipolar

10 transistor.